**Geometry/Algebra 2, Section 8.1 p 507**

**p 510-11 #3-13, 28-30**

3. 

4. 

5. 

6. 

7. ; It is a quadrilateral.

8.  It is a hexagon.

9.  It is a 13-gon.

10.  It is a 15-gon.

11. 

12. 

13. 

28. The sum of the interior angle measures of the playing field is .

29. The sum of the interior angle measures of the playing field is .

30. The measure of each interior angle of the hexagon is .

**p 511-2 #14-17, 19-21 and 31**

14. 

15. 

16. 

17. The student thinks that because an octagon has 8 exterior angles while a hexagon has only 6 exterior angles, the sum of the measures of the 8 angles must be greater than the sum of the measures of the 6 angles. The sum of the measures of the exterior angles of any convex n-gon is always .

19. Interior angle: 

Exterior angle: 

20. Interior angle: 

Exterior angle: 

21. Interior angle: 

Exterior angle: 

31. Interior angle: 

Exterior angle: 